

Amendments to the Specification

Please replace the Table 5 at page 57 with the following amended Table 5:

TABLE 5
Alignment of variable regions of spirochete flagellin proteins.
Sequences in bold type have sequence identifiers as indicated.

AbTx_Fla ¹	SEQ ID NO:29:	73	80	90	100	110	120	130
ABNJ_Fla:	SEQ ID NO:30:	LRVQGANQDEAIAVNIFSTNVANLFGEGV	...	QAPAPAEGAAQQEGVQP	...	APAQGGISSPINTTAIDAN		
Bt_Fla	SEQ ID NO:31:	H-----	YAA-----	A-----	V-----	VN-----	V-----	T-----
Bp_Fla	SEQ ID NO:32:	H-----	YAS-----	A-----	VS-----	APAPAAA-----	V-----	TV-----
Ba_Fla	SEQ ID NO:33:	H-----	YAA-----	A-----	A-----	APAPAAA-----	V-----	
Bh_Fla	SEQ ID NO:34:	H-----	YAS-----	A-----	A-----	ATPAPVA-----	P-----	I-----
Bc_Fla	SEQ ID NO:35:	H-----	YAS-----	A-----	A-----	V-----	V-----	V-----
Bz_Fla	SEQ ID NO:36:	H-----	YAA-----	S-----	AQ-----	V-----	V-----	V-----
Bg_Fla	SEQ ID NO:37:	H-----	YAA-----	A-----	AQAA-----	V-----	E-----	A-----
Bb_Fla	SEQ ID NO:38:	H-----	YAA-----	S-----	AQAA-TA-----	V-----	Q-----	PTPAT-----

¹ LRVQGANQDEBAIAWNIFSTNAVNLPGCEGV; SEQ ID NO:15
DRAPAQEGAAQEGVQP; SEQ ID NO:16

APAPGQISSPINVTIDAN;
APAPGQISSPINVTIDAN;
ATPAPAVA; SEQ ID NO:18
ATPAPAVA; SEQ ID NO:19
APAPAPAS; SEQ ID NO:20
AQAA; SEQ ID NO:21
PTPAT; SEQ ID NO:22
PAPVT; SEQ ID NO:23
AQTA; SEQ ID NO:24
PAPAT; SEQ ID NO:25
1 Numbers correspond to amino acid positions of *B. lonestari* sp. nov. flagellin protein fragment of SEQ ID NO:2.
Abbreviations and sources (accession numbers): Ab, *Amblyomma borellia* strains from Texas and New Jersey; Bt, *B. turicadae* (M67462); BP, *B. parkeri* (M67461); Ba, *B. anserina* (X75201); Bb, *B. hermsii* (A44894 and M67460); Bc, *B. crocodilurea* (X75204); Bz, *B. afzelii*; Bg, *B. garinii* (X75203); Bb, *B. burgdorferi* (X69611 and P11089); and Fla, flagellin.